

Amendments to the Specification:

Please add the following new paragraph before paragraph [1001]:

Reference to Co-Pending Applications for Patent

The present Application for Patent is related to the following co-pending U.S. Patent Application:

"Method and Apparatus for Processing Shared Sub-packets in a Communication System" having Serial No. 09/981,027, filed October 15, 2001, assigned to the assignee hereof, and expressly incorporated by reference herein.

Please replace paragraph [1061] with the following amended paragraph:

[1061] FIG. 7 illustrates a structure of the modified F-SPDCCH 700. The modified F-SPDCCH 700 comprises information enabling the two subscriber stations to demodulate the F-PDCH. Therefore, the F-SPDCCH 700 comprises and MAC IDs for each subscriber stations 702(1), 702(2), ARQ IDs 702(1), 704(2), sub-packet IDs 706(1), 706(2), encoder packet sizes 708(1), 708(2), and number of Walsh channels used 710(1), 710(2). The structure can be further simplified if the second subscriber station is assumed to use a number of Walsh channels less than or equal to the number of Walsh channels of the second first subscriber station. Then the modified F-SPDCCH 700 comprises only one of the blocks 710(1), 710(2).

Please replace paragraph [1062] with the following amended paragraph:

[1062] Because all the subscriber stations intended to share the sub-packet must reliably receive the modified F-SPDCCH 700, the modified F-SPDCCH 700 is transmitted at a power determined by the power requirement of the subscriber station with the worst forward link quality metric for which the modified F-SPDCCH 700 is intended. Upon receiving the modified F-SPDCCH 700, each of the subscriber stations demodulates the modified F-SPDCCH 700 and decodes the MAC IDs in the blocks 702(1), 702(2) 702(1). If the MAC ID of the subscriber station is identical to either of the decoded MAC IDs, the subscriber station acquires the

remaining information from the modified F-SPDCCH 700, and processes the sub-packet of the F-PDCH in accordance with the information.

Please replace paragraph [1073] with the following amended paragraph:

[1073] If the MAC ID indicates that the sub-packet is to be shared, the subscriber stations will use the remaining bits of the F-SPDCCH to determine the number of sub-slots into which the sub-packet is subdivided and the number of subscriber stations sharing the sub-packet. Consequently, each of the subscriber stations acquires this information, and then starts receiving the CDM TDM channels 900(i), as illustrated in FIG. 9. Because each of the CDM channels 900(i) is modulated by a Walsh code, the subscriber stations need to know these Walsh codes. In one embodiment, pre-determined Walsh codes are reserved for the CDM channels 900(i). In another embodiment, the subscriber stations is notified about the Walsh codes by signaling messages. Only the number of CDM channels 900(i) equal to the number of subscriber stations sharing the sub-packet is transmitted, and the transmission occurs only when the sub-packet is shared. In one embodiment, the CDM channels 900(i) are transmitted concurrently, consequently, each of the subscriber stations accumulates data from all the TDM channels 900(i), and then post processes the accumulated data. Because each of the CDM control channels 900(i) for the TDM-shared F-PDCH is intended for one of the subscriber stations and the base station has a information about the subscriber station forward link quality metric, the base station transmits each of the CDM control channels 900(i) at just enough power to reach the intended subscriber station reliably.

Please replace paragraph [1085] with the following amended paragraph:

[1085] In one embodiment, the channels 1202(i) are transmitted concurrently, consequently, each of the subscriber stations accumulates data from all the channels 1202(i), and then post processes the accumulated data. During the post processing, each of the subscriber stations first demodulates the control channel 1202(1) and decodes a MAC ID of block 1204. The subscriber station with MAC ID identical to the MAC ID of block 1204 decodes the remaining information, and processes the sub-packet on the F-PDCH in accordance with the gathered information. The

subscriber stations whose MAC IDs are not identical to the MAC ID of block 1204 decode the number of transmitted control channels 1202(i) of block 1214, cease further post processing of the control channel 1202(1), and repeat the procedure for the next channel 12021208(i). Therefore, the subscriber stations have information about the number of transmitted control channels 12021208 (i). Because as discussed there exists a relationship between the number of transmitted control channels 12021208 (i), unless the subscriber station finds a MAC ID indicating that the channel 12021208 (i) contains information for the subscriber station, the subscriber station attempts to demodulate only the transmitted channels 12021208 (i).

Please replace paragraph [1098] with the following amended paragraph:

[1098] If the block 1304 indicates that there are m additional control channels 13021118(i), the determination proceeds as follows.